H. H. KOLLNER.

ROLLER ATTACHMENT FOR SLEDS.

APPLICATION FILED MAY 6, 1915. RENEWED JAN. 12, 1916.

1,195,233.

Patented Aug. 22, 1916.

2 SHEETS—SHEET 1.

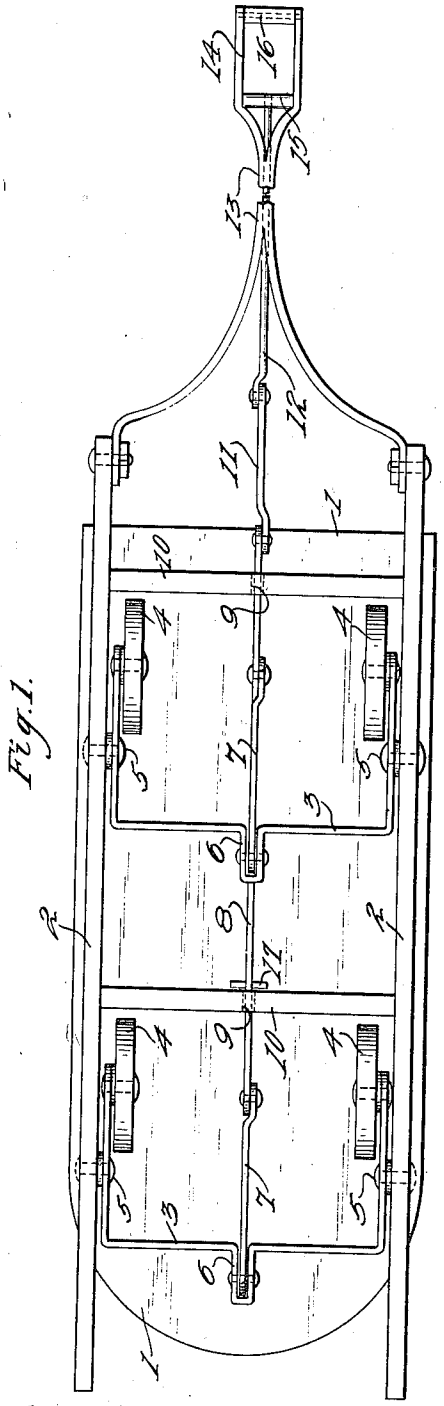


Fig. 1.

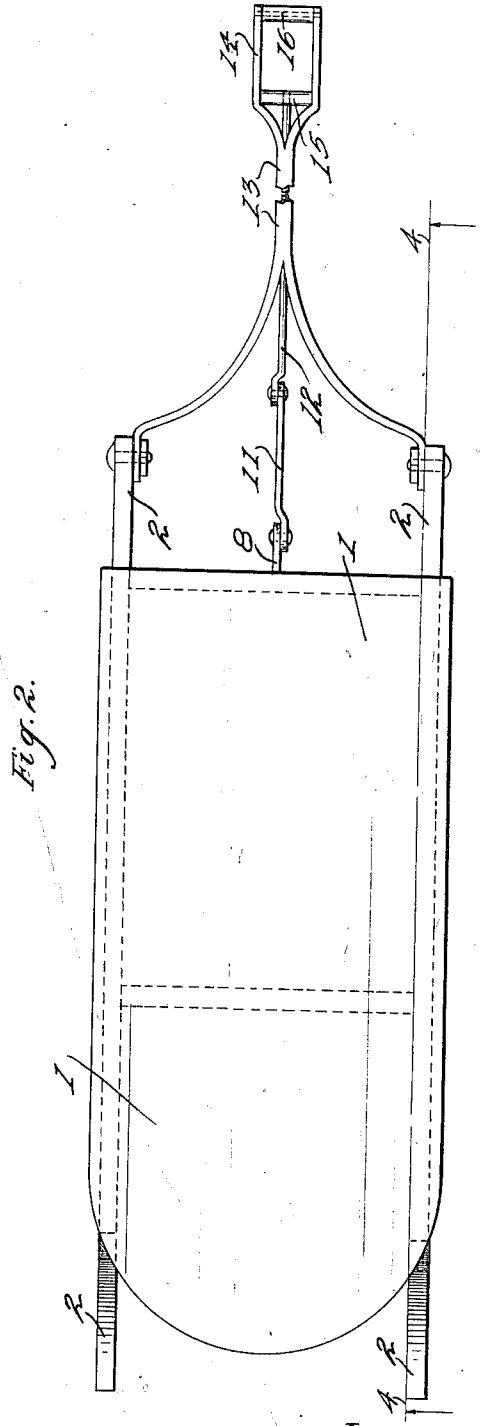


Fig. 2.

Witnesses

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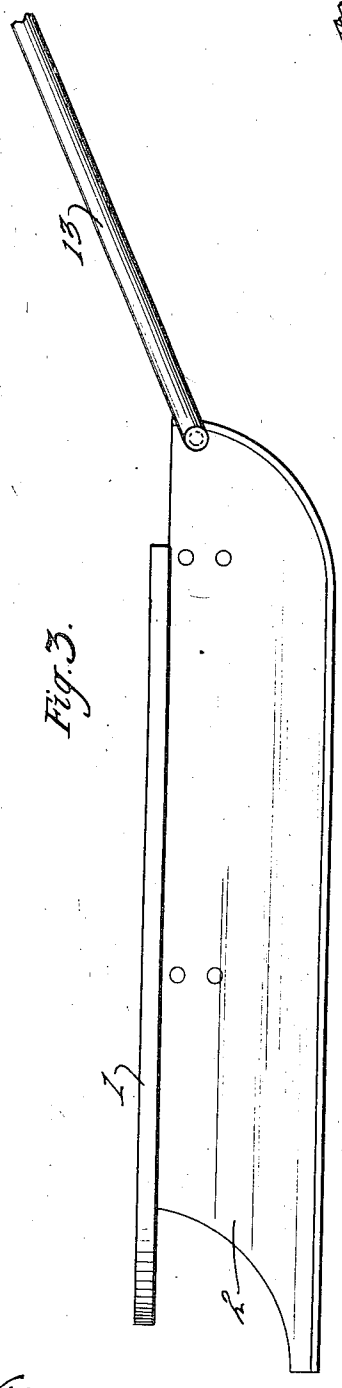


Fig. 3.

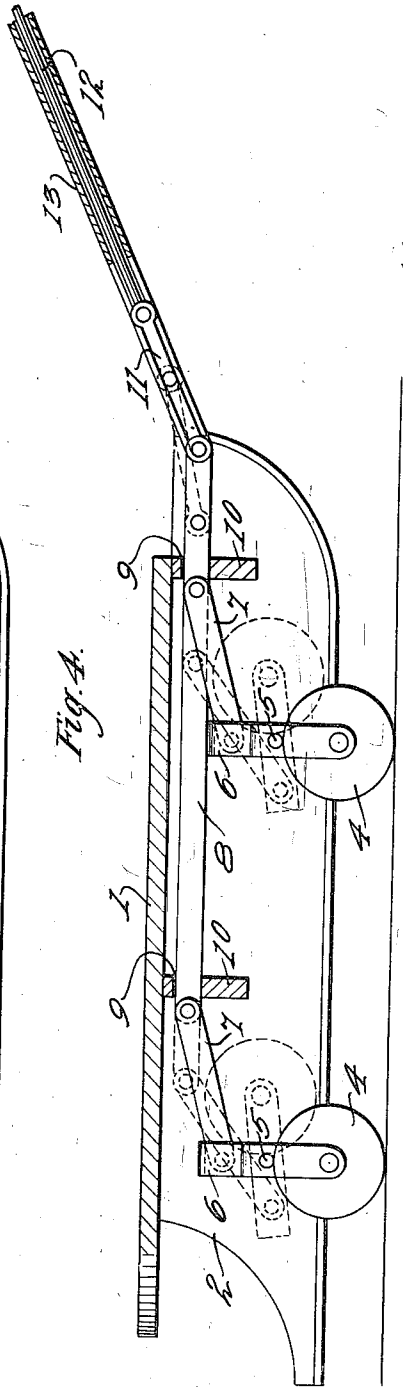


Fig. 4.

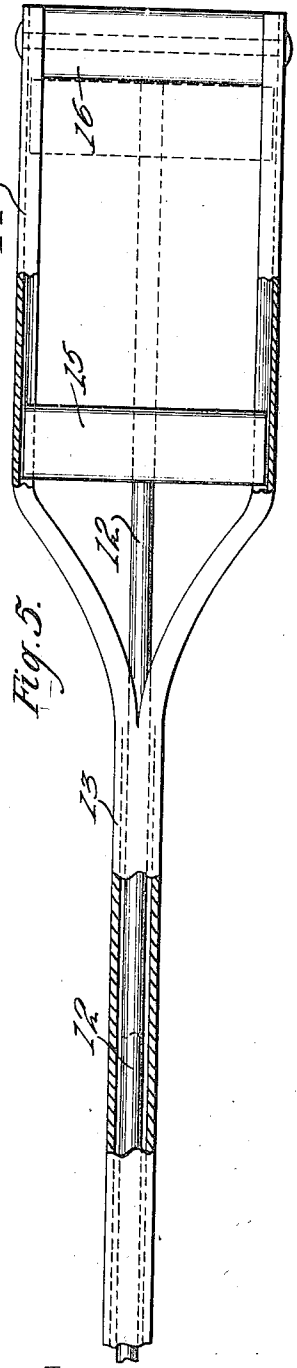


Fig. 5.

Witnesses

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UNITED STATES PATENT OFFICE.

HANS H. KOLLNER, OF CHICAGO, ILLINOIS.

ROLLER ATTACHMENT FOR SLEDS.

1,195,233. Specification of Letters Patent. Patented Aug. 22, 1916.

Application filed May 6, 1915, Serial No. 26,240. Renewed January 12, 1916. Serial No. 71,808.

To all whom it may concern:

Be it known that I, HANS H. KOLLNER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Roller Attachments for Sleds, of which the following is a specification.

This invention relates to improvements in roller attachments for sleds and its object is to produce such an attachment independently mounted to swing on the sled runners so that the rollers or wheels may be raised above the level of the runners to permit the vehicle to travel on said members, or depressed below the level of the runners to permit travel on said rollers.

Means for instantaneously effecting a change from runners to rollers or vice versa are the important feature of my invention.

More specifically I provide a handle for the vehicle having a hollow head in which a stationary grip and a movable grip are arranged, said movable grip being operatively connected to the rollers in a manner to permit the instantaneous operation thereof.

The invention consists in the combination and arrangement of parts to be hereinafter fully described in the following specification, pointed out in the claims and illustrated in the accompanying drawings which form part of said specification and in which—

Figure 1 is an inverted plan view of my improved device. Fig. 2 is a top plan view. Fig. 3 is a side elevation of the device. Fig. 4 is a section taken on line 4—4 of Fig. 2. Fig. 5 is a plan view, partly in section, of the handle.

Like reference characters indicate corresponding parts throughout the several views.

The reference numeral 1 designates the top of an ordinary sled provided with the usual runners 2 to which the axles 3, 3, provided with rollers 4 are pivoted as at 5. The axles 3 are approximately U-shaped with the exception that the base of the U is formed with an offset 6 in which one end of a link 7 is pivoted, both of said links being connected to the pitman 8, that extends through apertures 9, 9 in the braces 10, that is connected to the link 11 that is connected to the sliding rod 12 that extends through the tubular portion 13 of the handle and into the head 14 of said handle, which head is formed with grooved sides in which the sliding grip 15 carried by the rod 12 is arranged. The head 14, further, is provided with the stationary grip 16 of ordinary construction and purpose. The pitman 8 aforesaid is provided with a stop pin 17 which, when the mechanism is in the position illustrated in Fig. 1, serves to prevent further movement of said pitman in one direction.

In Fig. 1 the sliding grip 15 is shown at the lower end of the handle head and the pitman 8 is forced toward the rear end of the vehicle thus causing the link 7 to force the bases of the U-shaped axles away from the top 1 of the vehicle and raising the rollers above the level of the runners and permitting the vehicle to travel upon said runners. To move the rollers below the level of the runners the sliding grip is moved toward the free end of the handle head thus swinging the rollers and axles into the position shown in full lines in Fig. 4.

What is claimed is;—

1. In a sled, axles pivotally connected to the sled runners, rollers carried by said axles, a pitman, links connecting said pitman and axles, a handle formed with a head and means slidably arranged in said head and operatively connected to said pitman for actuating the same whereby said rollers may be swung above or below the level of the sled runners.

2. In a sled, axles pivotally connected to the sled runners, rollers carried by said axles, a pitman, links connecting said pitman and axles, a handle formed with a head, a stationary grip carried by said head, a sliding grip carried by said head and means connecting said sliding grip and the aforesaid pitman whereby the latter member may be actuated to swing said rollers above or below the level of the sled runners.

3. In a sled, axles pivotally connected to the sled runners, rollers carried by said

axles, a pitman, links connecting said pitman and axles, a tubular handle formed with a grooved head, a stationary grip carried by said head, a sliding grip arranged in the grooved portion of said head and rod connection between said sliding grip and the aforesaid pitman.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two subscribing witnesses.

HANS H. KOLLNER.

Witnesses:
GRACE THOMPSON,
HULDA JOHNSON.